

Q. No.	Marks	Q. No.	Marks
1		6	
2		7	-
3		8	
4		9	
5		10	
		Total	

Ques	stion wise ma	rks given by M	loderator
Q. No.	Marks	Q. No.	Marks
1		6	
2		7	
3		8	
4		9	
5		10	
		Total	

INSTRUCTIONS TO CANDIDATES

- Candidates should occupy the correct seat and write correct seat number and other details in the space
 provided for the purpose on the answer-books.
- Candidates who are not in their seats by the time notified, will not as a rule be permitted to appear for the examination. The Senior Supervisor may at his/her discretion admit those who give him/her a satisfactory reason.
- 3. Each answer-book contains forty pages. Check whether the pages are properly numbered.
- 4. Candidates should write their answers in legible handwriting. They are warned that zero marks may be assigned to answers which cannot be assessed by the examiners owing to illegible handwriting.
- 5. Write on both sides of a page. Rough work where necessary, should be done on the last page in the space provided. No page should be left blank. Any such act shall be treated as unfair means.
- 6. Do not write anything in the Examiner & Moderator sheet (Part-B) & Re-Evaluator Sheet except Candidate details.
- 7. Do not damage or make any stray marks on the barcodes.
- 8. Candidates will not be permitted to leave the examination hall until half an hour after the question paper is distributed.
- All answer-books supplied shall be returned whether written or blank. Nothing shall be written on the questionpaper.
- 10. No sheet shall be torn from the provided answer-books nor shall additional papers attached to them.
- 11. Even if it is mentioned in question paper to write each section in separate answer book, if any paper / subject have multiple sections, the candidate has to write all sections in one and the same answer book.
- 12. A warning bell will be given ten minutes before the close of the examination. Candidates will not be allowed to leave the examination hall during the last ten minutes. At the final bell, they must stop writing and be ready to hand over their answer books to the Junior Supervisor. They should not leave their seats until answer-books from all candidates are collected by the Junior Supervisor.

UNFAIR MEANS IN THE EXAMINATIONS

- 13. Candidates shall write the answers only with BLUE/BLACK ink Ball pen only. Use of any other Pen like Gel ink or Fountain ink or any other colour ink, will be treated as unfair means in terms of revealing of identity.
- 14. Candidates are forbidden to (i) bring any book, notes, scribbling papers, pages, Mobile phones/smart watches or any other similar devices. (ii) speak or communicate in any manner to any other candidate, while the examination is in progress, and (iii) take with them any answer-book written or blank while leaving the examination hall. The supervisors/authorized persons are authorized to check the students.
- 15. A candidate who disobeys any instructions issued by the Senior/ Junior Supervisor or who is guilty or rude or disobedient behavior is liable for disciplinary action to be taken against him / her by the University.
- 16. Do not fold the answer book anywhere because it will be treated as unfair means in terms of revealing of identity.
- 17. Candidates suspected to be guilty of any of the aforesaid acts will be allowed to write their paper only after giving an undertaking in writing that the decision of the University in respect of the reported act of unfair means is binding on them/Exchange of writing materials, stencils, mathematical instruments, etc. is strictly prohibited. If candidates want anything, they should approach the Junior Supervisor without disturbing other candidates. However, they should not leave their seats on any account..
- 18. Any method to bribe the examiner/s by attaching currency notes or letters is strictly prohibited and will result in serious action being taken by the University
- 19. Seat number should be written only the space provided for the same. Candidate should not write his/her name in any part of the answer-book. Writing Name, Seat No., Phone/Cell No., putting signature, use of religious invocation or any writing that is not relevant to the answers anywhere in the answer-book will be treated as attempts to reveal identity.
- 20. Underlining of answers for focusing attention is permitted. However, use of varied inks, except for illustrations and figures must be avoided. DO NOT use symbol like encircling the question or using colour arrows for P.T.O. These will all be considered as attempt to readily identify the specific answer-book & will be treated as unfair means.





Space for Marks	Question No.	START WRITING HERE				
	8.1>	Quantum mechanics is the boanch of physics				
		where we studied about to tiny particle which				
		doals with the wave mechanics.				
		Postulates+				
		is Hernost be differential				
	(11) He must be Continus					
		(111) He must be normalized				
		(1) It must have a Singled Value				
		(v) 11 must Blow tre nortized Contra Condition				
		John all space.				
		(VI) It must have 1412.				
		(VI) the State of System must be dedind				
		patter lights and the second of the second o				
		(viii) The probability of dindry the particle				
		18 given by 1012				
		to The probability of find now any particle is				
		positive so wave bunction is given				
		as 1412				
		(2) It must he squre Integral.				
		or most the squitting way.				
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	(b)	(40) = 1 (01) + 1 (02) + 1 (03) - (Chrin
		V2 2
		$ \Psi_1\rangle = \frac{1}{\sqrt{3}} \phi_1\rangle + \frac{i}{\sqrt{3}} \phi_3\rangle (G_{11}(N))$
		13 13
		3010:
		140 = 1 100 + 1 100 + 1 100 - 0
		6 2
		$(4) = \frac{1}{\sqrt{2}} (4) + \frac{1}{2} (4) + \frac{1}{2} (4) $
		T2 2 2
		for normulse <4142 = 1
		12 x 1 - 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1
		2 4 4
		1 + 2 pm
		Thull make that
		= + + +
		1
-		
		Hence 140> 15 normalise d
		Now',
		1417 = 1 1417 + i 1037 (mm Gvin) -0
		V3 V3
		$\langle \Psi_1 \rangle = \frac{1}{\sqrt{3}} \frac{1}{\sqrt{3}}$
		1/3
	,	: Now: For normalised landition
•		< 4,1 41> = 1
		•
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		1 1/3 1/2 - 1/3 1/2
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	•	3 3
		$\frac{2}{3} \neq 1$
		: 14,7 1 s not normalised
		+ 118>
		Her; (401 = 1 19,74 - 1 19) and (frm ")
		10,>= 1 (d,> + i (dg) (from Guin)
		: <\p(141) = 1 + i × 1
		€ 6 2 3 2
· · · · · · · · · · · · · · · · · · ·		2 23
		(6 (2 2G)
		3nd (25)
		$\langle \psi_{1} =\frac{1}{\sqrt{3}}\frac{ \psi_{1}\rangle-\frac{1}{\sqrt{3}} \psi_{2}\rangle}{\sqrt{3}}$
		:. L4147 = 1 +1 - 1
	,	= 1 + 1 (2 - 23)
-		$\langle 4,10\rangle = \frac{1}{\sqrt{6}} + i \left(\frac{\sqrt{3}-1}{\sqrt{3}}\right)$
	A 9.	



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Space for Marks	Question No.	
	(3)	V(x)= \omega
		$=-V_0$ 0 $< \times < \frac{9}{2}$
		2
		Solution:
		Here $wax = \sqrt{\frac{2}{4}} \sin\left(\frac{n\pi x}{4}\right)$
		Now 1st order Correction is quen as
		EU(1) = (1) (1) (1) (1)
		EU(1) = (10 A 4/10) HI A 10) 95
		_ · · · ·
		<u> </u>
		$= \int \frac{1}{2} \sin(\frac{n\pi x}{q}) \times (-v_0) \int \frac{2}{q} \sin(\frac{n\pi x}{q}) dx$
····		<u> </u>
		
		$= \frac{2}{9} \left(-\frac{1}{9}\right) \frac{3}{3} \frac{1}{1} \frac{1}{9} \frac{1}{2} \frac{1}{2} \frac{1}{2}$
		$= \frac{2(-v_0)}{q} \left(\frac{1-(w_0)^2 n \pi n}{q} \right) \frac{dn}{dn}$
		a) <u>· (a</u>)
		2
		α
		$= -\frac{v_0}{q} \int_{-\infty}^{\infty} 1 - \left(\frac{v_0 \sqrt{2n\pi x}}{a} \right) dx$
		$\frac{1}{\alpha}$
		0
		$= -\frac{v_0}{a} \left[\int_{0}^{1} dx - \int_{0}^{\omega_s} \left(\frac{2n\pi x}{a} \right) dx \right]$
		$= -\frac{v_0}{q} \left[2 \right]_0^q - \left[\sin \left(2 n \pi x \right) \times \frac{q}{2 n \pi \delta} \right]_0^q$
		J L 50.079

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		$= \frac{1}{q} \left[\frac{1}{2} \right] = \left[\frac{5 \cdot n \left(\frac{n}{q} \right) \times \frac{q}{2n\pi}}{\frac{2n\pi}{q}} - \frac{5 \cdot n \left(\frac{n}{q} \right) \times \frac{q}{2n\pi}}{\frac{2n\pi}{q}} \right]$
		<u> u_o [a-o] - o</u>
		= -vo (a)
		= - 0 .
		: En(1) = -10]
· · · · · · · · · · · · · · · · · · ·	(૯)	30103 July 7
		$H_{n} = \begin{bmatrix} E_{0} + E_{0} & 0 \\ 0 \\ 0 \end{bmatrix} \text{and} H' = \begin{bmatrix} 0 & A \\ A & 0 \end{bmatrix}$
		Soln:
	,	hare 41 = 0
	,	$ \begin{array}{c c} 0 & 1 & 0 \\ \hline 0 & 1 & 0 \\ \hline 0 & 1 & 0 \\ \hline \end{array} $
	· ·	
		$\begin{array}{c cccc} \vdots & & & & & & & & \\ \hline & & & & & & \\ \hline & & & &$
		Per Jug Olga
		: (-En(1) A = 0 En(2) = < 40(1) (H' 40)
		En(1) - (m(1))
		$(\varepsilon_{n}^{(1)})^{2} - \Lambda^{2} = 0 \qquad \varepsilon_{n}^{(2)} = \Lambda^{2}$
		$\frac{1}{1}\left(\frac{(\varepsilon_{N}(1))^{2}}{(\varepsilon_{N}(1))^{2}}\right)^{2} = \frac{1}{2}$ $\frac{(\varepsilon_{N}(1))^{2}}{(\varepsilon_{N}(1))^{2}} = \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
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(1) 10	(5)	
→	(9)	1+15 an mathematical term used as the notition
	•	in the Quantum merchanics as the wave function
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		8(1)=0 { x+0 }
	•	on changing the scale
		$S(x-x_0)=0 \text{sat } x_0$
		= 0 / 2=0
		Hore &(x) &(x-x0)=1
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	E	and the state of t
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	W	(S(2) S(2-20) = f(100)
		0 (fm) 8(x-c)=f(c)
		-10 as chobihocen a and b
		m = f(x) S(x-1) = 0
		-10 as a docs not lies in between a and b
	(19)	$S(\alpha x) = 1 S(x)$
		, 191
	0	$8(-x) = \delta(x)$
•	O	$\frac{d}{dx} f(x) = g(x)$
· ·		qx
	(S)	次も(な) = O
	(V)	8(a-x) 8(x-b) = 8(a-b)





Space for Marks	Question No.	START WRITING HERE
	(v)	S(a-b) = S(b-a)
	63)	$\int \tilde{S}(x) = 1$

	8	$\int f(x) \delta(x) = 1$
	·	~ω
	(e)	3010°
		$\frac{1}{2} = \left(\frac{1}{2} + \frac{1}{2}\right)^{\frac{1}{2}} \left(\frac{1}{2} + \frac{1}{2}\right)$
,		External perturbation 4= bx
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		1st oar brackon to the Energy of the
		() = < 44,0) [H,1 A4,0) > () = ()
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		= < 42/2) 1 P3/1420 (444)
		\(\frac{\partial \text{min}}{\pu} \)
		= N= 120, (0) (18, a) (4, (0))
	•	= (#) 12 4 (nu (0) / (1/4 1/4) 1/4 (0))
		= (3mm) x P \ (m) (0) (4 + 0+) (2) 3
		(2 mw)
		$E_n^{(1)} = 0$ //
		as (a+a*1=0
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<u>.</u>	6.3			
	(6.1)			
	`(c)			
		we have Equition .		•
		$H\psi = \in \emptyset$		
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		cis any lanstant		
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		: y= f(r,0)e rieth		
		Incressing to by 2th		
		f(r, 0) e1c+h= f(r, 0) eild+211/1		
		$f(r, \theta) e^{-r(r, \theta)} = \frac{f(r, \theta)e^{-r(\theta)} + e^{-2\pi i c}}{f(r, \theta)e^{-r(\theta)}}$		
		CIA TONE TONE		
		t(7,0)e =1		
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		Lz=C - (fimi) and C = tr
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	(9)	(6.A) (6.B) = A.B + ie (AXB)
		$6 = 6x^{2} + 6y^{2} + 6z^{2}$ $A = Ax^{2} + Ay^{2} + Az^{2}$
		13 = Bxî + Byî + Bzk
		L.H.3 = (6. A) (6. B)
		=[(Gxî+6yî+6ex), (Axî+Ayî+Azx)].
		[(exi+eyj+czf).(Bxi+Byi+Bzk)]
		= [(627+A27) ((cyf+Qy),)
		= [(xî + Axî) + (6gî + Ayî) + (6zk + Azk)]
,		[(6xî+Bxî)+(6yî+Agî)+ (6zk+Azk)]
		Marie Caracter II
		$= [(6x+Ax)^{2} + (6y) + Ay)^{2} + (6z+Az)^{2}].$
		[(6x+Bx)) + (6y+By)) + (62+182)K)
.		= $A_{2}+B_{2}$ = $[A_{2}+B_{2}+A_{2}+B_{2}+B_{2}+B_{2}+B_{2}]$
		+1 [< x ? A x ? x B x ? + 6 y ? By] x By ? + 6 z £ A y £ x Azê
·		$= (A \cdot B) + i \cdot (A \cdot 2 \cdot 1 \times B \cdot 2 \cdot 1 + B \cdot 3 \cdot 1 +$
		= (A·B) + i & (A×B)
·		: = R.N.S
		: (6.4) (6.4) = A.B + 18 (A×B)
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	(Q·4)	
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		4 Antisym = 1/2 (4(1)4(1) - 4(2)-4(1)
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		Equal to the June Encopy. Kinchic Enory is not chared
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		Scattering in which initial Energy
		is not Eased to the final energy.
		Hose the lanctic Enagry is changed
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		Cross Section 13 sevent to the Elastic and
		Inclostic Scattering which on
		didderentiating we get the Solid
		ande which is Same.
		Total Scattenny Cross: - 1+15 the total Scatterny
		Section Whichis Obtain due to
		the Inglustic Scattening and
		the Elastic Scatterny?
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	D.17	
	(c)	$\forall(x) = \left[\frac{2}{3} \sin\left(\frac{nx}{n}\right) - \cdot \left(\frac{nx}{n}\right)\right]$
		1 to probably of dindry burne is given as 1412
		time 1/2
		$\int \frac{2}{3} \sin^2(n\pi) d\pi = \frac{2}{3} \left(\sin^2(n\pi) d\pi \right)$
		И
		= 2 (si - ws/2nx) dx
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-		= 2 / 1 doc - [W spanx 7 dx
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-		3
		= 2 (2) 2 - (Sin(2nx) x (L))
		= 2 [17 - 0 .
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		: Hence the probably of 4120- [= Sin (02)
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		HR20
Space for Marks	Question No.	START WRITING HERE
	(Q·3)	
	(4)	80107
		Trail wave bunchon is given by Y= A (2(a-x)
	,	HINE normalised Condition
		4000 = 1 4°4 dx = 1
·	,	-05
		$\therefore \int A \times (\alpha - \lambda) \cdot A \times (\alpha - \lambda) = 1$
		2)47
-	i.	$\frac{1}{2} \left(x_3 \left(\alpha - x \right)_3 \right)_{q,q} = 1$
		$\frac{1}{2} \frac{1}{2} \frac{1}$
		Who started
		$\therefore R^2 \left(x^2 \left(a^2 - 2ax + x^2 \right) dx = 1 \right)$
		Harris Marine Marine
		: A2 ((22a2 - 2 ax3 + 24) 32 - 1
	· 	4 li multi multi ligo
		: A2 x2024 - 20 2367 24 6x = 1
		9 7
· 		: A2 Sa2 x2 dx - 29 J23 dx + Jx4 dx = 1
	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		: R2 \ \a2 \ \frac{2}{3} \] \ - 29 \ \[\frac{2}{3} \] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		$A^{2}\left(\begin{array}{cc} a^{2} & 2a^{2} + a^{2} \\ \hline 3 & 2 \end{array}\right) = 1$



Space for Marks	Question No.	
		$A^{2}\left(\frac{a^{5}+a^{5}-2a^{4}}{2}\right)=1$
		A2 6595+395-294 - 1
	•	15 3)
		A^{2} $\left(\frac{8a^{3}-2(1)}{13}-\frac{1}{3}\right)$
		$\frac{A^2}{15} = \frac{94}{3} = \frac{1}{3}$
		A2 a4 / 24a-15) = 1
<i></i>		(45)
		A2 45
	:	649-18)04
	_	A = 45 x 92
		(249-15)
, -	• • • •	
		: 4 = [43 x 2 2 (a-2) - ()
		1290-15
		Now:
,		<4> = <4 4 4>
		a when H = - # d2 + 1 mwx2
		d am dx2 d
		-A
	ı	: A2 / (a2 a3 - 2 a a4 + a5) = 1
		3 4 5
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	÷	. (3 4 5)
		$A^2 a^5 \left(\frac{1}{3} - \frac{2}{4} + \frac{1}{5} \right) = 1$



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Space for Marks	Question No.	START WRITING HERE
		$\lambda_{J} \alpha_{Z} \left(\frac{3\rho}{J} \right) = 1$
		$A^2 = 30$
		q'S
		$\frac{1}{A} = \frac{30}{45}$
		Now; $\psi = \sqrt{\frac{30}{95}} \alpha(a-2)$
<u> </u>		
		$= \frac{30 \times (9-x)}{9^{5}}$
		Now; (4) = <4/4/4) 4> when H= 1 to 62 +1 mon 2
		andx2 2
		· = < 4/ - # 42 + 1 m m 2 x 2 / 4 > .
	·	am gra
		= - 1/2 < \p 42 \psi > + 1 mo2 < \p /22 \psi > - (1)
· · · · · · · · · · · · · · · · · · ·		Now, min eq w term
		$\frac{1}{4} \frac{-t^2}{4} \frac{1}{4} \frac$
		· · · · · · · · · · · · · · · · · · ·
		(30 x (a-x))
		
		$= -\frac{h^2}{2m} \sqrt{\frac{30}{95}} \pi(a-2) \cdot \sqrt{\frac{30}{95}} (-2) $
		$= + \frac{\pi^2}{30} \left(\frac{30}{30} 2x(0-2) \right) - (1)$
		am as
		2nd term in 2y (i)
		1mo2 < \p(x2/4) = 30 x2(a-x) xx
		as

000691 HBSU		
Space for Marks	Question No.	START WRITING HERE
		$= 30 \chi \ln(\alpha - x)^2$
		q s
		$= \frac{30}{95} \times (0^{2} - 291 + 70^{2})$
		93
		= 30 (x4a2 - 2ax5+x6)
		$= \frac{30}{a^4} \left(\frac{x^4a^2 - 2ax^5 + x^6}{a^4} \right)$
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